1. Record Nr. UNINA9910427694503321

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Titolo	Development of clinical decision support systems using Bayesian networks : with an example of a multi-disciplinary treatment decision for laryngeal cancer / / Mario A. Cypko
Pubbl/distr/stampa	Wiesbaden, Germany : , : Springer Vieweg, , [2020] ©2020
ISBN	3-658-32594-1
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XIX, 148 p. 39 illus., 10 illus. in color.)
Disciplina	006.3
Soggetti	Artificial intelligence Computer Applications Knowledge based Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Patient-specific Bayesian Network in a Clinical Environment -- TreLynCa: A Tumor Board Decision Model for Laryngeal Cancer -- Model Validation and Tools for Guided BN Modeling -- GUI for PSBN-based decision verification.
Sommario/riassunto	For the development of clinical decision support systems based on Bayesian networks, Mario A. Cypko investigates comprehensive expert models of multidisciplinary clinical treatment decisions and solves challenges in their modeling. The presented methods, models and tools are developed in close and intensive cooperation between knowledge engineers and clinicians. In the course of this study, laryngeal cancer serves as an exemplary treatment decision. The reader is guided through a development process and new opportunities for research and development are opened up: in modeling and validation of workflows, guided modeling, semi-automated modeling, advanced Bayesian networks, model-user interaction, inter-institutional modeling and quality management. Contents Patient-specific Bayesian Network in a Clinical Environment TreLynCa: A Tumor Board Decision Model for Laryngeal Cancer Model Validation and Tools for Guided BN Modeling GUI for PSBN-based decision verification Target Groups Scientists and

students in the field of medical informatics, computer science, medicine and psychology About the Author Dr.-Ing. Mario A. Cypko completed his PhD at the Computer Science department of the University of Leipzig, Germany. He was a postdoctoral research fellow in the Human Research Office of the European Space Agency in the Netherlands. He is currently a postdoctoral research assistant at the German Heart Center Berlin, Germany.